

2000 psi minimum poured concrete wall; allowable load per anchor = 280 lbs.
Grout-filled (min 2000 psi concrete) C90 block; allowable load per anchor = 154 lbs.

Southern Yellow Pine specific gravity = 0.55

Spruce Pine Fir specific gravity = 0.42

Anchor: 1/4" dia x 3" long ITW Ramset / Redhead Tapcon.

Washer: 1" O.D. / 5/32" I.D. min; must conform to ANSI B18.22.1 type B.

2-1/2" minimum lag screw edge distance required.

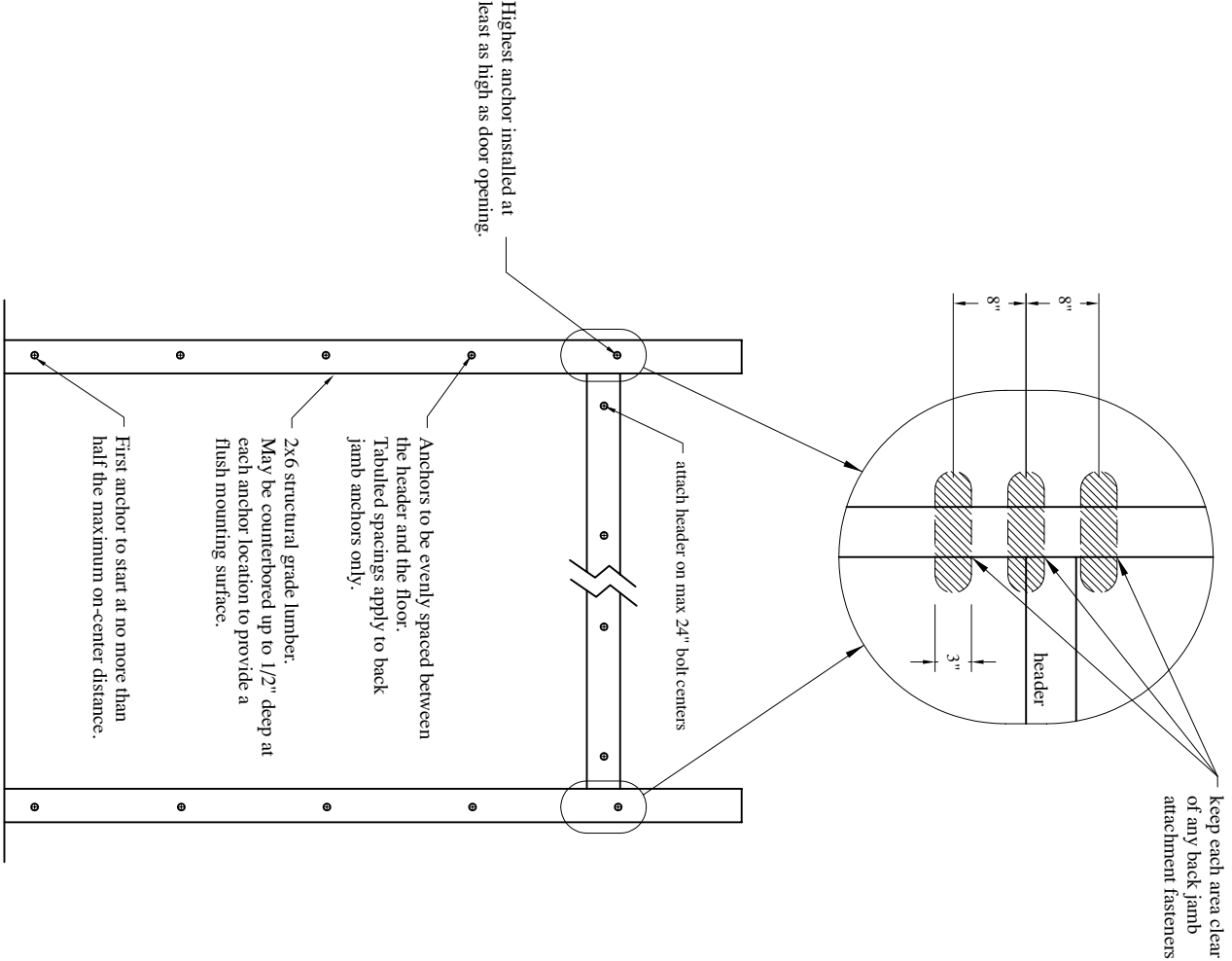
1-1/2" minimum embedment required.

Maximum spacing shown in chart. Lesser spacing may be used to avoid interference with door component system.

Spring pad connection not included.

Maximum load per jamb = 0.5 x door width x max positive pressure x door height

Door Width	Zone / Max Positive Pressure	Maximum Fastener On-Center Spacing	
		C-90 Block	2000 PSI Concrete
9	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	24	24
	Zone 3 / 19.2	21	24
	Zone 4 / 22.9	17	24
10	Zone 5 / 26.9	15	24
	Zone 6 / 31.2	13	23
	Zone 7 / 35.7	11	20
	Zone 8 / 38.7	10	19
16	Zone 9 / 42.6	9	17
	Zone 1 / 12.8	24	24
	Zone 2 / 15.9	23	24
	Zone 3 / 19.2	19	24
18	Zone 4 / 22.9	16	24
	Zone 5 / 26.9	13	24
	Zone 6 / 31.2	11	21
	Zone 7 / 35.7	10	18
24	Zone 8 / 38.7	9	17
	Zone 9 / 42.6	8	15
	Zone 1 / 12.4	18	24
	Zone 2 / 15.3	15	24
30	Zone 3 / 18.5	12	22
	Zone 4 / 22.0	10	19
	Zone 5 / 25.9	8	16
	Zone 6 / 30.0	7	14
36	Zone 7 / 34.4	6	12
	Zone 8 / 37.1	6	11
	Zone 9 / 40.9	5	10
	Zone 1 / 12.4	16	24
42	Zone 2 / 15.3	13	24
	Zone 3 / 18.5	11	20
	Zone 4 / 22.0	9	16
	Zone 5 / 25.9	7	14
48	Zone 6 / 30.0	6	12
	Zone 7 / 34.4	5	10
	Zone 8 / 37.1	5	10
	Zone 9 / 40.9	5	9



Alternative design may be approved by a registered professional engineer.
Supporting structural elements shall be designed by a registered professional engineer for wind loads in addition to other loads.
Calculation reference: DASMA TDS #161A, 2005 AF&PA NDS for Wood Construction and ITW Ramset / Redhead data.

GULL DOORS	SCALE	none
	DATE	06-22-2006

Back Jamb Attachment Detail
Self-Tapping Concrete Anchor

C.H.I. Drawing: BJA-002-02